

Title (en)

PERMANENT MAGNET MOTOR, HERMETIC COMPRESSOR, AND FAN MOTOR

Title (de)

PERMANENTMAGNETMOTOR, HERMETISCHER KOMPRESSOR UND LÜFTERMOTOR

Title (fr)

MOTEUR À AIMANT PERMANENT, COMPRESSEUR HERMÉTIQUE ET MOTEUR DE VENTILATEUR

Publication

**EP 2117102 B1 20180124 (EN)**

Application

**EP 07737363 A 20070226**

Priority

JP 2007053510 W 20070226

Abstract (en)

[origin: EP2117102A1] An object is to provide a permanent magnet motor that highly reduces torque fluctuation, thereby reducing noise and vibration. The permanent magnet motor may be formed as follows: a length D of a permanent magnet 8 in a longitudinal direction is the same as or longer than a width A between sides of the magnetic pole tooth 3 in the circumferential direction in an end portion of the magnetic pole tooth 3, and a distance C between tip portions of a pair of the first slits 13a and 13b within the same pole is smaller than the width A between the sides of the magnetic pole tooth 3 in the circumferential direction in the end portion of the magnetic pole tooth 3. The permanent magnet motor, thus formed, may be characterized in that cut surfaces 12 face the first slits 13a and 13b.

IPC 8 full level

**H02K 21/16** (2006.01); **H02K 1/27** (2006.01); **H02K 29/03** (2006.01)

CPC (source: EP KR US)

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Citation (examination)

US 2005062354 A1 20050324 - ILES-KLUMPNER DORIN [DE]

Cited by

CN113169607A; CN103975514A; EP2393186A3; EP2916435A4; EP2738923A4; US9929610B2; WO2020169291A1; WO2013020846A3; US10978923B2

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